TRANSMITTAL OF	INFOR. ATION DISCLOS der 37 CFR 1.97(b) or 1.97(SURE STATEMEN.	Docket No. 7604/27
In Re Application Of: K	unhardt, et al.		
Serial No. 09/381,328	Filing Date 03/17/98	Examiner	Group Art Unit 5071
Title: METHOD AND DISCHARGES	APPARATUS FOR SUPPRESSIO	ON OF THE GLOW-TO-ARC TR	ANSITION IN GLOW
☐ A check in the an	(Only complete if Applicant elects nount of is atta mornissioner is hereby authorized	nent of Fee to pay the fee set forth in 37 CFR 1.17 ached. I to charge and credit Deposit Ac	
as described belongen to the control of the control	ow. A duplicate copy of this sheen the amount of my overpayment. Transmission by Facsimile*	et is enclosed. Certificate of Mailing	by First Class Mail
certify that this	document and authorization to charge ling facsimile transmitted to the United demark Office (Fax. No.	first class mail under 37 C.F.R Assistant Commissioner for 20231.	th the U.S. Postal Scryles as . 1.8 and is addressed to the Patents, Washington, D.C.
Typed or Printe	Signature d Name of Person Signing Certificate	Signature of Berson Michael I Typed or Printed Name of Per	L Friscia
*This certificate m deposit account	ay only be used if paying by	Dated: 11 15 W	
Michael R. Friscia Registration No. 33,884 Wolff & Samson 5 Becker Farm Road Roseland, NJ 07068-17 Tel: (973) 533-6599			
Fax: (973) 436-4499			
Country 1998 Legalors			PiOAREVIII

RANSMITTAL O	F INFORMATION DISCI Inder 37 CFR 1.97(b) or 1.	OSURE STATEMENT 97(c))	111	ocket No. 7604/27
Re Application Of: 1	Kunhardt, et al.			
Sertal No. 09/381,328	Filing Date 12/27/99	Examiner		Group Art Unit
	aratus for Supression of the Glo	w-to-Arc Transition in Glow D	lscharges	RECEIVEL CENTRAL FAX CE
•				SEP 1 5 20
		Address to: Commissioner for Patents hington, D.C. 20231		
HHome bo	ipplication other than a continuent the date of entry of the nation fore the mailing of a first Office of filling of a request for continuent the continuent for continuent	ed examination under 37 CFR	i & dito illousiñ o	f a first Office
application; be Action after the Action after the CFR 1.97(b), Final Action to otherwise closs	fore the mailing of a first Office of filing of a request for continue on Disclosure Statement submiprovided that the Information ander 37 CFR 1.113, a Notices prosecution in the applications.	a Action on the mails, or below and examination under 37 CFR 37 CFR 1.97(c) atted herewith is being filed at Disclosure Statement is filed as of Allowance under 37 Ci an, and is accompanied by one	1.114. Iter the period s before the ma	specified in 37
application; be Action after the Action after the CFR 1.97(b), Final Action to otherwise closs	fore the mailing of a first Office of filing of a request for continue on Disclosure Statement submit provided that the Information upder 37 CFR 1.113, a Notice	a Action on the mails, or below and examination under 37 CFR 37 CFR 1.97(c) atted herewith is being filed at Disclosure Statement is filed as of Allowance under 37 Ci an, and is accompanied by one	1.114. Iter the period s before the ma	specified in 37
application; be Action after the Action after the CFR 1.97(b), Final Action cotherwise clos	fore the mailing of a first Office of filing of a request for continue on Disclosure Statement submiprovided that the Information ander 37 CFR 1.113, a Notices prosecution in the application of the specified in 37 CFR 1.9	a Action on the mails, or below and examination under 37 CFR 37 CFR 1.97(c) atted herewith is being filed at Disclosure Statement is filed as of Allowance under 37 Ci an, and is accompanied by one	1.114. Iter the period s before the ma	specified in 37
application; be Action after the Action after the CFR 1.97(b), Final Action cotherwise clos	fore the mailing of a first Office of filing of a request for continue on Disclosure Statement submiprovided that the Information ander 37 CFR 1.113, a Notices prosecution in the application ement specified in 37 CFR 1.9	a Action on the mails, or below and examination under 37 CFR 37 CFR 1.97(c) atted herewith is being filed at Disclosure Statement is filed as of Allowance under 37 Ci an, and is accompanied by one	1.114. Iter the period s before the ma	specified in 37
application; be Action after the Action after the CFR 1.97(b), Final Action cotherwise clos	fore the mailing of a first Office of filing of a request for continue on Disclosure Statement submiprovided that the Information ander 37 CFR 1.113, a Notices prosecution in the application ement specified in 37 CFR 1.9	a Action on the mails, or below and examination under 37 CFR 37 CFR 1.97(c) atted herewith is being filed at Disclosure Statement is filed as of Allowance under 37 Ci an, and is accompanied by one	1.114. Iter the period s before the ma	specified in 37
application; be Action after the Action after the CFR 1.97(b), Final Action cotherwise clos	fore the mailing of a first Office of filing of a request for continue on Disclosure Statement submiprovided that the Information ander 37 CFR 1.113, a Notices prosecution in the application ement specified in 37 CFR 1.9	a Action on the mails, or below and examination under 37 CFR 37 CFR 1.97(c) atted herewith is being filed at Disclosure Statement is filed as of Allowance under 37 Ci an, and is accompanied by one	1.114. Iter the period s before the ma	specified in 37

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No. 7604/27

In re Application of: Kunhardt, et al.

Filed:

03/17/98

Serial No.:

09/381,328

For:

Method and Apparatus for Suppression of the Glow-to-Arc Transition in

Glow Discharges

Assistant Commissioner for Patents Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, Applicant submits herewith patents, publications or other information of which they are aware, listed on form PTO-1449, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose. Legible copies of all items listed on form PTO-1449 accompany this information disclosure statement.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists. The filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO-1449 with initials or other appropriate marks.

The person making this statement is the attorney for Applicant who signs below.

Date: 1115100

Michael R. Friscia Wolff & Samson

5 Becker Farm Road Roseland, NJ 07068-1176

Tel: (973) 533-6599 Fax: (973) 436-4499

647617

	7604/3	
INFORMATION DISCLOSUL CITATION	Applicant(s) Kunhardt, et al.	
(Use several sheets if necessary)	Filing Date	Group Art Unit

Docket Number (Optional) 7604/3	09/381,328			
Applicant(s) Kunhardt, et al.				
Filing Date 03/17/98	Group Art Unit 5071			

		Filing Date 03/17/98			5071
,	U.S. PAT	ENT DOCUMENTS			
DATE		NAME	CLASS	SUBCLASS	PILING DATE IF APPROPRIATE
05/09/95	Roth, e	t aL	315	11.21	10/29/93
02/07/95	Roth, e	t al.	315	11.21	05/28/93
10/06/87	Hoag		313	619	03/20/86
10/21/75	Coderi	re, et al.	313	514	05/17/73
06/28/74	Przyby	rlek	313	220	03/08/73
	 				
-	1-				
		·			
1					
	FORE	GN PATENT DOCUMENT	rs		
DATE		COUNTRY	CLASS	SUBCLASS	Translation YES NO
		:			
	<u> </u>				
ierical Simulatio Physics Reports,	n and Expe	erimental Study of an At . 6, 1994, pp. 511-524	mospheric-Pr	essure Direct-Cr	rrent Glow
ppression of Glov ona Discharges,'	w-to-Arc Ti " The Instit	ransition in Atmospheric ate of Physics, 1984	Pressure Gas	Discharge of T	EA CO2 Laser by
low Plasma Tres and Methods in	atment at A Physics Re	tmospheric Pressure for search B37/38 (1989), p	Surface Mod p. 842-845	ification and Fil	m Deposition,"
sing of Ozone Fo): Appl. Phys. 27	rmation E1 7 (1994) pp.	fficiency in a Homogeneo 1985-1987	ous Glow Disc	harge Plasma at	Atmospheric
and a sufference of the suffer					
	DATE 05/09/95 02/07/95 10/06/87 10/21/75 06/28/74 DATE DATE	DATE 05/09/95 Roth, e 02/07/95 Roth, e 10/06/87 Hoag 10/21/75 Codern 06/28/74 Przyby FOREI DATE OTHE nerical Simulation and Expery Physics Reports, Vol. 20 No ppression of Glow-to-Arc Tona Discharges," The Institute of	U.S. PATENT BOCUMENTS DATE NAME 05/09/95 Roth, et al. 10/06/87 Hoag 10/21/75 Coderre, et al. 06/28/74 Przybylek FOREIGN PATENT DOCUMENT DATE COUNTRY OTHER DOCUMENTS (Inches Physics Reports, Vol. 20 No. 6, 1994, pp. 511-524 ppression of Glow-to-Arc Transition in Atmospheric one Discharge Treatment at Atmospheric Physics, 1984 and Methods in Physics Research B37/38 (1989), pp. and Methods in Physics Resea	U.S. PATENT DOCUMENTS DATE NAME CLASS 05/09/95 Roth, et al. 315 10/06/87 Hoag 313 10/21/75 Coderre, et al. 313 06/28/74 Przybylek 313 FOREIGN PATENT DOCUMENTS DATE COUNTRY CLASS OTHER DOCUMENTS (Including Author, Tite Physics Reports, Vol. 20 No. 6, 1994, pp. 511-524 ppression of Glow-to-Arc Transition in Atmospheric Pressure Gas one Discharges, The Institute of Physics, 1984 low Plasma Treatment at Atmospheric Pressure for Sarface Mod and Methods in Physics Research B37/38 (1989), pp. 842-845	U.S. PATENT DOCUMENTS DATE NAME CLASS SUBCLASS

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-A820 (also form PTO-1449) POSA/REVO4

Patent and Trademark Office * U.S. DEPARTMENT OF COMMERCE

SHEET 1

OF 2

· W	 	ATION DISCLOSUL CITATION	Docket Number (Optional) 7604/4 Applicant(s)	Application Number 09/381,328		
- Mar((Use several sheets if necessary)	Kunhardt, et al.	T		
_			Filing Date 0.3/17/98	Group Art Unit 5071		
"EXAMINER INITIAL		OTHER DOCUMENTS (Including Author,				
PATE PART		Okazaki, et al., "Appearance of Stable Glow Dis 50 Hz Source," J. Phys. D: Appl. Phys. 26 (1993)	icharge in Air, Argon, Oxygen and Nitr), pp. 889-892	ogen at Atmospheric Pressure Using :		
		Yokoyama, et al., "The Improvement of the Atn Films," J. Phys. D: Appl. Phys. 23 (1990) pp. 37	nospheric Pressure Glow Plasma Metho 4-377	od and the Deposition of Organic		
		Yokoyama, et al., " The Mechanism of the Stab				
	1					
	 					
			•			
	 					
.)						
			• .			
				,		
	 			· · · · · · · · · · · · · · · · · · ·		
			• • • • • • • • • • • • • • • • • • • •			
-				· · · · · · · · · · · · · · · · · · ·		
				 -		
				•		
•						
	 					
			D. Annah Ariana	:		
EXAMINER			DATE CONSIDERED			
4PV 4 4	where a	f citation considered, whether or not citation is in confo	manne with himsin at all the manner with his m	hoose divide Manager		

n Re Application: 1	Kunhardt, et al.		•
Serial No. 09/381,328	Filing Date 12/27/99	Examiner	Group Art Unit
·	aratus for Supression of the Glo	w-te-Are Transition in Glow Dis	charges
		ayment of Fee t elects to pay the fee set forth in 37	CFR 1.17(p))
Charge	low. A duplicate copy of this si the amount of	heet is enclosed.	• •
Certificate o Certify that this docu account is being fac Patent and Trademar (Date)	any additional fee required. If Transmission by Facsimile* Iment and authorization to charge deposits transmitted to the United St. Signature Id Name of Person Signing Certiflorie	i certify their this documents of Participal in the community	lling by First Class Mail ent and fee is being deposited with the U.S. Postal Service inder 37 C.F.R. 1.8 and is tant Commissioner for Patents, 31. erron Mailing Correspondence se of Person Mailing Cartificate
Certificate o Certificate o I certify that this docu account is being fac Patent and Trademar (Date) Typed or Printe *This certificate deposit account.	any additional fee required. If Transmission by Facsimile* Iment and authorization to charge degrainite transmitted to the United St is Office (F Signature Id Name of Person Signing Cartificate may only be used if paying by	i certify their this documents of Participal in the community	ent and fee is being deposited with the U.S. Postal Service inder 37 C.F.R. 1.8 and is tant Commissioner for Patents, 31. erson Mailing Correspondence se of Person Mailing Cartificate
Charge Certificate of I certify that this docusecount is being fact Patent and Trademax (Date) Typed or Printe	any additional fee required. If Transmission by Facsimile* Iment and authorization to charge depaints transmitted to the United State Office (F Signature M. Name of Person Signing Cartificate may only be used if paying by	i certify their this document of the Assist Washington, D.C. 2022 Michael R. Friscia Typed or Printed Name	ent and fee is being deposited with the U.S. Postal Service inder 37 C.F.R. 1.8 and is tant Commissioner for Patents, 31. erson Mailing Correspondence se of Person Mailing Cartificate

. ,				Applicant	7604/	27 [05	7/381,328	·.—
. '1	NFOE	MATION DISCLOSURE (Use several sheets if necessa	CITATION py)	Kunhs Filing Dat	rdt, et al.			Gre	up Art Unit		
				U.S. PATENT DO	12/27	/99		<u> </u>			
			T	1		. 1	CLAS	. 1	SUDCLASS	FILING	DATE
AMINER NITIAL	REF	DOCUMENT NUMBER	DATE		UST.		·······	-	300021111	TE AFFEC	IPRIATE
										_	
					<u> </u>						
										_	
					:						
					:						
				·	:		,				
4.50		·						ì			
	-		<u> </u>					•			
	\vdash			·			<u> </u>				
	<u></u>			FOREIGN PATE	NT DOCUM	ents	:				
	PEF	DOCUMENT NUMBER	PATE		LIVITRY		GLA:		SUDCLAS	S Tru	nieden OR
		77 06112	03/02/77	France						1	T
	 	•	 	 	<u> </u>		· ·				
		·			· · ·			 .		· · · · · · · · · · · · · · · · · · ·	
-						: :		•		-	†
					:						
	<u>i</u>			OTHER DOCUM	CENTS 18-	etodine i	luther T	Ma Du	nte Portino	t Pages, Etc.)	ــــــــــــــــــــــــــــــــــــــ
·				· · · · · · · · · · · · · · · · · · ·			:			·	
		·			:						
	\dashv						· · ·	···:			_
				•			: ,	•	•		
7 A B.4T2"	PD			D. CT	CORCINED	ED	:				
(AMIN					CONSIDER	<u>. </u>		:			
LAMIN	ER: Init	ial if citation considered, whethe	er or net citation is at communication t	In conformance with		<u>. </u>	raw line	throu	eh citation l	l act in confor	manice at

TRÂNSMITTAL OI (U	FINFOR ATION DISCLO Inder 37 CFR 1.97(b) or 1.97	SURE STATEME (c))	Docket No. 7604/27
in Re Application Of:	Kunhardt, et al.		
Serial No. 09/381,328	Filing Date 03/17/98	Examiner	Group Art Unit 5071
Title: METHOD AND DISCHARGES	APPARATUS FOR SUPPRESSION	ON OF THE GLOW-TO-ARC	TRANSITION IN GLOW
	Assistant Com Washing	oddress to: unissioner for Patents ton, D.C. 20231	
of a national a CFR 1.491 in	37 C in Disclosure Statement submitted oplication; within three months of an international application; or l wer event occurs last.	the date of entry of the natio	naistage as set iorui iii or
a national app international a	an Disclosure Statement submitted Dication, or the date of entry of application; or after the mailing of out before the mailing date of either	the national stage as set fo date of a first Office Action	rth in 37.CFR 1.491 in an
1.	a Final Action under 37 CFR 1.	113, or	
2.	a Notice of Allowance under 37	CFR 1.311,	
which	ever occurs first.		
Also submitted	i herewith is:		
a certific	cation as specified in 37 CFR 1.9	7(e);	
	OR set forth in 37 CFR 1.17(p) for 7 CFR 1.97(c)	submission of an informati	on Disclosure Statement
	- -		

This Page is Inserted by IIFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ CRAY SCALE DOCUMENTS
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.